



INSTALLATION & PROGRAMMING INSTRUCTIONS



Rev 20070803
Doc 800346

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I. SITE PREPARATION

Before installing, make sure there is adequate clearance for the body and base of the safe as well as proper electrical power.

A. SPACE REQUIREMENTS



Space must be provided for mounting the safe, plus base (if used), plus required air gaps for access. Side space is required in order to allow access to critical rear-mounted connection. Swing clearance is required to allow full access to the interior.

- Clearance: 4 Inch Hinge Side Clearance and 6 Inches Rear Clearance (MaxVend can be flush against the rear wall, but must have 6 inches clearance on the opening side) for external connections.
- 170° Door Swing Clearance
- Height Clearance

B. POWER REQUIREMENTS



A dedicated NEMA 15 amp 115 V_{AC} grounded outlet must be provided within 6 feet of the hinge side of the safe, or an NKL approved UPS (uninterruptible Power Supply). The unit may share its AC circuit with other point of sale electronic equipment, but must not be on the same circuit as rotating machinery such as a cooler or other refrigeration equipment.

- Dedicated Standard 115 V_{AC} Grounded Outlet
- No Rotating or Heavy Loads on AC Circuit
- Outlet Within Six Feet of Hinge Side
- Do NOT Connect Other Loads to the Safe's Surge Protector.
- Use 24 V_{AC} power supplies with MARS validators, 12 V_{DC} power supplies with JCM validators, and 9 V_{DC} power supplies with EPR panels. Using an incorrect aux power supply will cause component failure.

C. WARNINGS



The following items are critical to safety, security and proper operation of the completed installation.

- Do not touch exposed electronics.
- Service should only be provided by authorized personnel.
- The use of a grounding strap is required when in contact with internal electronic components to prevent damage to components.
- Follow all installation and programming procedures carefully.
- Do not attempt to enroll any users on the safe until all programming is complete.
- The data bus between remote units must be connected to the controller unit in the same order at the time of initial configuration as at final installation.

D. READ AHEAD



There are many variables involved in installation. It is critical that you read ahead so that you are prepared for upcoming steps.

- In order to ensure success please read this document completely before beginning.
- Some programming may be required before safe doors can be opened.
- There may be multiple units involved, some with bases, there may be remote display panels, and you may want to prepare the system in a staging area before final delivery and bolt-down.
- Follow all installation and programming procedures carefully!
- **Installation is not complete until the safe(s) are bolted down and all system and component configuration is complete.**

II. INSTALLATION

The base, if used, must be installed first. Before proceeding, make sure the space and power requirements are met for the mounting location. Once the base is fully installed, the safe is placed in position and bolted to the base.

A. UNPACKING

1. Remove wrapping material from the safe.
2. Remove all loose contents from within the safe.
3. Unpack, inventory and identify each item shipped with the safe. The inventory you receive depends on safe model and may include anchor kit, power supplies, UPS or surge protector, validator heads, validator cassettes, data cables, printer, mounting base, external display module, tubes, shelf, documentation, stickers, etc.
4. Remove the lag bolts holding the safe to the pallet.
5. Remove the safe from the pallet.

B. "C" UNIT PREP



If you only have one Autobank safe it is your "C" unit. If you have more than one, your "C" unit will be your D8C or MaxVend. If you only have V1 or V2 safes the "C" unit is the one with a full set of four RJ45 external jacks and an alarm cable hanging from the back panel. "R" units have only two RJ45 jacks installed.

1. Connect the main power supply to the SAFE POWER jack on the rear or side of the safe via the UPS or surge protector provided.
2. If the display is external: Connect the display power supply (9 V_{DC} to Aux Power unless equipped with a biometric reader). Connect the RJ45-RJ45 data cable between a DATA port on the display and a DATA port on the rear of the safe.
3. The display should indicate "DOOR VIOLATION". Ignore the audible alarm. If not, check your power supplies and the data connection. Do not close the safe door(s) until instructed.
4. Unlock the main door as follows:
 - a. Press "0".
 - b. Press "ENTER".
 - c. Enter 1-5-3-6.
 - d. Press "DOORS".
 - e. Select "NO" to removing cash.
 - f. Select the "C" unit safe.
 - g. D8C: Select INNER DOOR. Turn the handle and unlock the outer door. Reach in and verify the inner door knob lock turns.

- h. MaxVend: Select the lock. Turn the outer door handle to unlock.
 - i. V1 or V2: Select the name of the door (LOWER DOOR if applicable). Turn the Medeco keyswitch above the door then turn the handle to unlock the door. If the safe has an upper door repeat the above steps and select UPPER DOOR to verify operation.
5. If there are no "R" units in your system: Remove power to the safe and external display. Skip to step II-D.

C. "R" UNIT PREP

1. Connect power to all "R" units (SAFE POWER) as you did with the "C" unit.
 2. Locate an RJ45-RJ45 data cable. DO NOT connect it between the "R" and "C" units at this time.
 3. Establish communication between the "C" unit and the "R" unit as follows:
 - a. Press "0".
 - b. Press "ENTER".
 - c. Enter 1-5-3-6.
 - d. Press "PGRM".
 - e. Select "DEVICES".
- If the "R" units are listed skip step f. Scroll down to check for additional "R" units.**
- f. Select "ADD DEVICES"
 - g. Connect the RJ45-RJ45 cable from either DATA port on the rear (or side) of the "C" unit to either DATA port on the rear fo the "R" unit.
4. If you have additional "R" units repeat steps 1 through 3 until all "R" units have been added successfully.
 5. Unlock the main door on the "R" unit as follows:
 - a. Press "0".
 - b. Press "ENTER".
 - c. Enter 1-5-3-6.
 - d. Press "DOORS".
 - e. Select "NO" to removing cash.
 - f. Select the "R" unit safe.
 - g. Select the name of the door (LOWER DOOR if applicable). Turn the handle to unlock the door. If the safe has an upper door repeat the above steps and select UPPER DOOR to verify lock operation. Note: If the safe has two unnamed doors (numbers instead of logical names) try both. Note which is which.
 6. Repeat step 5 for any additional "R" units.
 7. Remove power from all safes. Disconnect all data cables. Set all these items safely out of the way until the boltdown is complete.



D. MARK BOLT DOWN POSITION



1. Position the safe (or base) in the installation location. **WARNING: Be sure to observe all clearance requirements.**
2. Mark the mounting hole locations on the floor.
3. Remove the safe (or base) and set aside.
4. Drill four 1/2 inch holes to a depth of 3 inches. The holes must be clean. Use a vacuum to clean the holes. *Do not use water to clean the holes.*
5. Position the safe (or base) so that the bolt-holes align with the holes drilled in the floor.
6. Feed all power supplies, printer cable and data cables through cabinet openings (if applicable) for routing access.
7. Repeat steps 1 to 6 for each safe.

E. BOLT DOWN (V1 OR V2 WITH BASE)

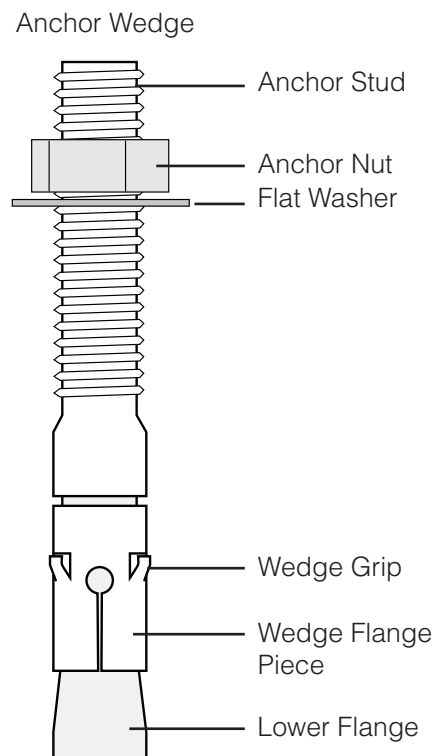
1. Move the base into position and bolt it into place:
 - a. Drive each anchor wedge in until 1/4 inch to 1 inch of the top protrude through the floor of the safe.
 - b. Slide the washers down over each anchor wedge.
 - c. Put the nuts on each anchor wedge by hand until finger tight. Turn approximately three to four full turns by wrench to complete the tightening.
2. Set the safe up onto the base and slide part way into position.
3. Connect the printer cable, alarm cable, Safe Power, Aux power and all data cables applicable.
4. Slide the safe into position on the base. Using the mounting bolts provided, screw the bolts in to secure the safe to the base.
5. Repeat steps 1 to 4 for each safe with a base.

F. BOLT DOWN (WITHOUT BASE)

1. Slide the safe part way into position.
2. Connect the printer cable, alarm cable, Safe Power, Aux power and all data cables applicable.
3. Move the safe into position and bolt it into place:
 - a. Drive each anchor wedge in until 1/4 inch to 1 inch of the top protrude through the floor of the safe.
 - b. Slide the washers down over each anchor wedge.
 - c. Put the nuts on each anchor wedge by hand until finger tight. Turn approximately three to four full turns by wrench to complete the tightening.
4. Repeat steps 1 to 3 for each safe.

G. FINALIZE HARDWARE

1. Unpack and setup the printer. Connect the printer cable using the adapter provided.
2. Connect the modem or network interface (if applicable). *Refer to supplemental instructions and/or contact NKL for assistance.*
3. Plug in or verify plugged in all power supplies.
4. Connect (or verify connection of) all data cables.



IV. PROGRAMMING SYSTEM SETTINGS

This section applies to all Autobank safes except the D8X. Refer to the D8X Operator's Manual if applicable. Some system settings are normally never changed in the field. Refer to the service manual or contact NKL Technical Service for assistance with any programming not covered by this document.

Refer to Part III for all variables.



Note: Until the first user key is enrolled, the master administration code is USER 0 with PIN 1536. This administrative code is only used for setup. After the first user is enrolled User 0 is automatically deleted.

A. CHECK THE CONFIGURATION REPORT

1. Press "0"
2. Press "ENTER."
3. Enter "1536".
4. Press "REPORT."
5. Select "CONFIG REPORT."
6. Check the top section of the Config Report (or display for date, time, and idle text) for the following:
 - a. If the time and date are correct skip Part IV-B.
 - b. If the name of the company appearing above the date and time on the screen is correct skip Part IV-C.
 - c. If the store's SITE number is correct skip Part IV-D.
 - d. If the bank ACCOUNT number is correct skip Part IV-E.
 - e. If the END DAY settings are correct skip Part IV-F.
 - f. If the DAYLIGHT SAVINGS is correct skip Part IV-G.
 - g. If the software SERIAL NUMBER is correct skip Part IV-H.
 - h. If the KEY REQUIRED settings are correct skip Part IV-I. *Note: On the Config Report under the section labelled KEY REQUIRE check each level for a Y or N. "Y" indicates this level may only be enrolled with a key. "N" indicates the level may be enrolled with only a user number (keyless) an electronic key.*

B. TIME/DATE

1. At the idle screen check the time and date. If correct, skip ahead to section B.
2. Press "0"
3. Press "ENTER."
4. Enter "1536".
5. Press "PGRM."
6. Select "TIME/DATE."
7. Select "TIME."
8. Enter the correct time (24-hour format).
9. Press "ENTER"
10. Select "DATE."
11. Enter the correct date (MMDDYY format).
12. Press "ENTER"
13. Press "ESC" to return to the idle screen to verify time and date information.

C. IDLE TEXT

1. At the idle screen check the name of the company in the idle text (top line). If correct, skip ahead to section C.
2. Press "0"
3. Press "ENTER."
4. Enter "1536".
5. Press "PGRM."
6. Select "SITE."
7. Select "IDLE TEXT."
8. Enter the name of the company (Refer to Part III-A). Use the upper right selector arrow buttons to scroll characters (enter numbers directly using the number pad) and use the upper left scroll arrow buttons to move across the field. Select DONE when done.
9. Press "ESC" to return to the idle screen.

D. SITE NUMBER

1. Press "0"
2. Press "ENTER."
3. Enter "1536".
4. Press "PGRM."
5. Select "SITE."
5. Select "SITE NUMBER."
6. Enter the store number (Refer to Part III-A). Use the upper right selector arrow buttons to scroll characters (enter numbers directly using the number pad) and use the upper left scroll arrow buttons to move across the field. Select DONE when done.
7. Press "ESC" to return to the idle screen.

E. BANK ACCOUNT NUMBER

1. Press "0"
2. Press "ENTER."
3. Enter "1536".
4. Press "PGRM."
5. Select "SITE."
5. Select "ACCT NUMBER."
6. Enter the bank account number (Refer to Part III-A). Use the upper right selector arrow buttons to scroll characters (enter numbers directly using the number pad) and use the upper left scroll arrow buttons to move across the field. Select DONE when done.
7. Press "ESC" to return to the idle screen.

F. END DAY SETTINGS

1. Press "0"
2. Press "ENTER."
3. Enter "1536".
4. Press "PGRM."
5. Select "SITE."
5. Select "END DAY."
6. Select START to set the beginning of this period, then enter the time of day (24 hour format, Refer to Part III-A).
7. Select END to set the end of this period, then enter the time of day (24 hour format, Refer to Part III-A). If AUTOPRINT is enabled the End Day report will print daily at the START time.
8. Select AUTOPRINT to toggle this function on (star *) or off (no star) (Refer to Part III-A).
9. Press ENTER to accept all settings on this screen. *The End Day period is the period during which any enrolled user may run the Grand Z End Day report to close the business day.*
10. Press "ESC" to return to the idle screen.

G. DAYLIGHT SAVINGS

1. Press "0"
2. Press "ENTER."
3. Enter "1536".
4. Press "PGRM."
5. Select "SITE."
6. Select "DAYLIGHT SAVINGS."
7. If the site is in a region that uses Daylight Savings select YES (star *), otherwise select NO. Press ENTER when done.
8. Press "ESC" to return to the idle screen.

H. SOFTWARE SERIAL NUMBER

1. Press "0"
2. Press "ENTER."
3. Enter "1536".
4. Press "PGRM."
5. Select "FACTORY."
6. Select "SERIAL NUMBER."
7. Enter the 5-digit software serial assigned by NKL for this customer organization (Refer to Part III-A). *If you do not have this data contact your NKL installation department dispatcher.* Press ENTER when done.
8. Press "ESC" to return to the idle screen.

I. KEY REQUIRE

1. Press "0"
2. Press "ENTER."
3. Enter "1536".
4. Press "PGRM."
5. Select "USERS."
6. Select "PERMISSIONS."
7. Select "KEY REQUIRE."
8. Enable (select to put a star (*)) or disable (select to remove the star (*)) next to each permission level. Scroll down to access additional levels.
9. Press ENTER when done.
10. Press "ESC" to return to the idle screen.

V. PROGRAMMING “C” UNIT SAFES

You may need to configure door delays or column values (D8 only) for the site. Most other hardware settings are normally never changed in the field, but the ones listed here are particularly important. Refer to the service manual or contact NKL Technical Service for assistance with any programming not covered by this document.

Refer to Part III for all variables.

A. CHECK THE CONFIGURATION REPORT

1. Press “0”
2. Press “ENTER.”
3. Enter “1536”.
4. Press “REPORT.”
5. Select “CONFIG REPORT.”
6. Check the Config Report for the following:
 - a. If the door delay is correct skip Part V-B.
 - b. D8C Only: If Column Values (per tube) are correct for every column skip Part V-C.
 - c. D8C Only: If the site uses the Vend Till feature, check the report for asterisks after the column values. Columns with an asterisk are included in a till. If the till setup is correct or the Vend Till feature is not used skip Part V-D.

B. DOOR DELAY

1. Press “0”
2. Press “ENTER.”
3. Enter “1536”.
4. Press “PGRM.”
5. Select “DEVICES.”
6. Select the first safe listed (ex: “D8C1.”)
7. Select “LOCKS.”
8. Select the first lock (ex: “OUTER DOOR.”)
8. Select “SET LOCK.”
9. Select “DELAY”
10. Enter the correct delay value as specified in Part III (ex: for 2 minutes enter 02).
11. Press “ENTER”
12. Press “ESC” to return to the idle screen.
13. Repeat steps 1 to 12 if the safe has a second door.

C. COLUMN VALUES (D8C ONLY)

1. Press “0”
2. Press “ENTER.”
3. Enter “1536”.
4. Press “PGRM.”
5. Select “DEVICES.”
6. Select “D8C1.”
7. Select “VEND.”
8. Select “COLUMNS.”
8. Select “COLUMN VALUES.”
9. Select a column set to an incorrect value (according to Part III).
10. Enter the correct value for that column (according to Part III).
11. Press “ENTER”
12. Repeat steps 9 and 10 for each incorrect column.
13. Press “ESC” to return to the idle screen.

D. DEFINE TILL (D8C ONLY)

1. Press “0”
2. Press “ENTER.”
3. Enter “1536”.
4. Press “PGRM.”
5. Select “DEVICES.”
6. Select “D8C1.”
7. Select “VEND.”
8. Select “DEFINE TILL.” (scroll as needed)
9. Each column that should be included in a till should have a star (*). Select the column to include (add star) or exclude (remove star) as part of the TILL.
10. After setting all columns press “ENTER”
11. Press “ESC” to return to the idle screen.

VI. PROGRAMMING “R” UNIT SAFES

If your system has “R” units you will probably need to configure some hardware settings. Most hardware settings are normally never changed in the field, but the ones listed here are particularly important. Refer to the service manual or contact NKL Technical Service for assistance with any programming not covered by this document.

Refer to Part III for all variables.

A. CHECK THE CONFIGURATION REPORT

1. Press “0”
2. Press “ENTER.”
3. Enter “1536”.
4. Press “REPORT.”
5. Select “CONFIG REPORT.”
6. Check the Config Report for the following:
 - a. If each LOCK has a logical name (ex: “V1R1 DOOR”) skip Part VI-B.
 - b. If each V1 or V2 door has a FIRE TIME of 05 (01 for upper door only) skip Part VI-C.
 - c. If each UIB (validator) has a logical name (ex: “V2R1 VAL 1” or “V2R2 VAL 2”) skip Part VI-D.

B. LOCK NAMES



If the V1 or V2 has two doors and you aren’t sure which door is which, open one of the doors to see which door actually unlocks (Refer to Part II-C-5). Make a note of the lock number so you can use this procedure to name it properly.

1. Press “0”
2. Press “ENTER.”
3. Enter “1536”.
4. Press “PGRM.”
5. Select “DEVICES.”
6. Select the first “R” unit safe (ex: “V1R1”).
7. Select “LOCKS.”
9. Select “NAME.”
10. Enter a logical name for the door (ex. “V1R1 UPPER DOOR” or if only one door exists simply “V1R1 DOOR”). Use the upper right selector arrow buttons to scroll characters (enter numbers directly using the number pad) and use the upper left scroll arrow buttons to move across the field. Select DONE when done.
11. Press “ENTER”
12. Press “ESC” to return to the idle screen.
13. Repeat steps 1 to 12 for each door on each “R” unit safe in the system.

C. LOCK FIRE TIMES

1. Press “0”
2. Press “ENTER.”
3. Enter “1536”.
4. Press “PGRM.”
5. Select “DEVICES.”
6. Select the first “R” unit safe (ex: “V1R1”).
7. Select “LOCKS.”
8. Select “SET LOCK.”
9. Scroll as needed and select “FIRE TIME”
10. Enter “05.”
11. Press “ENTER”
12. Press “ESC” to return to the idle.
13. Repeat steps 1 to 12 for each door on each “R” unit safe in the system.

D. VALIDATOR NAMES

1. Press “0”
2. Press “ENTER.”
3. Enter “1536”.
4. Press “PGRM.”
5. Select “DEVICES.”
6. Select the first “R” unit safe (ex: “V1R1”).
7. Select “VALIDATOR.”
8. Select “NAME.”
9. Enter a logical name for the validator (ex: “V1R1 VAL”; if the safe is a V2R1, label one “V2R1 VAL 1” and the other “V2R1 VAL 2”). Select DONE when done.
10. Press “ENTER”
11. Press “ESC” to return to the idle screen.
12. Repeat steps 1 to 11 for each validator on each “R” unit safe in the system.

VII. PROGRAMMING CASH

Cash is the most important single thing to setup correctly. Cash is already configured for your "C" unit safe so all remaining Cash setup relates to V1R or V2R safes.



If you have no "R" unit safes skip ahead to Section VIII.

A. CHECK THE CASH REPORT

1. Press "0"
2. Press "ENTER."
3. Enter "1536".
4. Press "REPORT."
5. Select "CASH."
6. Check the Cash Report for the following:
If you see bill counts for every bill validator in the system stop here and skip ahead to Part VIII. **If you only see cash listed for the "C" unit safe you must complete Part VII.**



B. Box CASH

1. Press "0"
2. Press "ENTER."
3. Enter "1536".
4. Press "PGRM."
5. Select "CASH."
6. Select "BOX."
7. Select "NEW."
8. Enter a logical name for the cash (ex. "POS A" for the first safe, "POS B" for the second safe, etc.). Select DONE when done.
9. Select the name of the first "R" unit safe (ex: "V1R1")
10. Select each validator.



WARNING: YOU MUST SELECT (put a star (*)) EACH VALIDATOR LISTED.

11. Press "ENTER"
12. Select the correct door.
13. The screen should very briefly indicate "BOX CASH CREATED". If you do not see this message don't worry - it only flashes on the screen for a moment.
14. Press "ESC" to return to the idle screen.
15. Repeat steps 1 to 14 for each V1R or V2R.

C. MACRO CASH



Perform the following only if you have more than one V1R and/or V2R in your system. The purpose of the Macro is to allow Armored Car service to pick up from two or more validating safes by only accessing the keypad one time.

1. Press "0"
2. Press "ENTER."
3. Enter "1536".
4. Press "PGRM."
5. Select "CASH."
6. Select "BOX."
7. Select "MACRO."
8. Enter "ARMORED CAR." Select DONE when done.
9. Select the name of each validated box cash (make sure you make a star (*) appear next to each validated box cash) listed.



WARNING: DO NOT INCLUDE MANUAL DROPS IN YOUR MACRO.

11. Press "ENTER"
12. The screen should very briefly indicate "MACRO CREATED". If you do not see this message don't worry - it only flashes on the screen for a moment.
13. Press "ESC" to return to the idle screen.

VIII. TESTING & TURNOVER

Perform this section completely by yourself once to verify everything works properly. If anything does not work according to procedures recheck your configuration settings. If you still feel something wrong contact NKL Technical Service before turning over the system to the customer.

Caution: Once the first user is enrolled User 0 is automatically deleted.

A. DOCUMENTATION

1. The Training Guide provided with the “C” unit safe is the primary document you will use to test the system and train the manager.
2. The Quick Guide is a simplified version useful for clerks only.
3. The Store Manual is a more complete document than the Training Guide, but is designed to serve as a manager’s reference document when more detail is desired.

B. USING THE TRAINING GUIDE

Perform each procedure listed in the Training Guide in the order presented. This will verify system operation. Perform these steps with the manager to demonstrate operation. This will train them so they are then able to train their employees. Skip procedures for any equipment they don’t have (ex: skip vending if there is no D8C or MaxVend in the system).

C. SIGN-OFF

After testing and training is complete, fill out the form on the back of this booklet. Include a copy with all signatures with the paperwork you turn in.

PAYMENT FOR DELIVERY AND INSTALLATION MAY BE WITHHELD IF THE COMPLETED SIGN-OFF FORM IS NOT RETURNED TO NKL.

